Laboratory Information Exchange in Health IT Introduction

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Topics

- Interoperability Definition
- Why Do We Need Interoperability
- Barriers to Interoperability
- Federal Health IT Strategic Plan Goals
- Shared Nationwide Interoperability Roadmap
- Learning Healthcare system
- Common Clinical Data Set
- Speakers
- References

Interoperability

The ability of a health system to exchange electronic health information and use electronic health information from other systems without special effort on the part of the user.

Derived from the Institute of Electrical and Electronics Engineers (IEEE) definition of interoperability

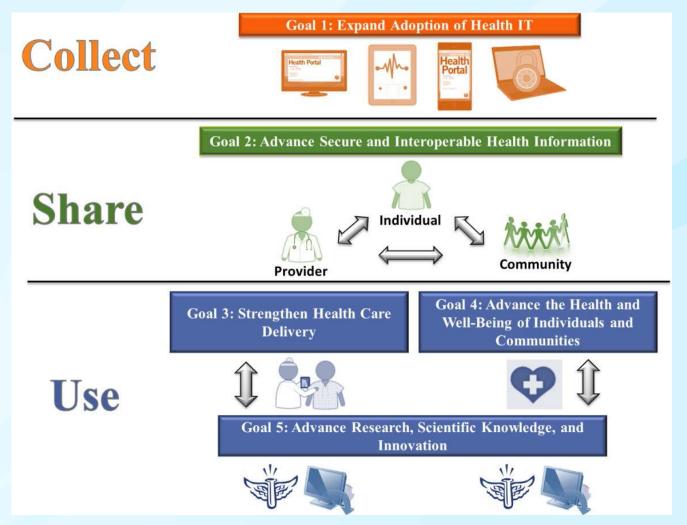
Why Do We Need Interoperability?

- Patient centered health care, consumers expect their healthcare data to be available when and where it matters to them
- Reduce care delivery redundancy and costs
- Support analysis that pinpoint waste and identify best practices
- Support public health with real-time case reporting, disease surveillance and disaster response

Barriers to Interoperability

- Electronic health information is not sufficiently structured or standardized
- Lack of financial motives, high costs
- Misinterpretation of existing laws and differences in relevant statutes
- No reliable and systematic method to establish and scale trust across disparate networks nationwide according to individual preferences

Federal Health IT Strategic Plan



http://www.healthit.gov/sites/default/files/federal-healthIT-strategic-plan-2014.pdf

Shared Nationwide Interoperability Roadmap The Vision

2015 - 2017

Nationwide ability to send, receive, find, use a common clinical data set 2018 - 2020

Expand interoperable data, users, sophistication, scale

2021 - 2024

Broad-scale learning health system

Core technical standards and functions

Certification to support adoption and optimization of health IT products & services

Privacy and security protections for health information

Supportive business, clinical, cultural, and regulatory environments

Rules of engagement and governance

CDC EHR Forum - Erica Galvez, MA (ONC) presentation, March 4, 2015

Learning Health System

Better care, smarter spending, healthier people

- Concept introduced 2007 by Institute of Medicine in response "To Err is Human and Crossing the Quality Chasm"
- Based on cycles and analytics
 - generate knowledge
 - feedback of knowledge to stakeholders
 - change behavior to improve health and to transform organizational practice
- Supports the need for improvement in safety, efficiency, and patient centeredness, based on best available practices

A Common Clinical Data Set

Patient name Laboratory test(s)

Sex Laboratory value(s)/results(s)

Date of Birth Vital signs

Race Care Plan fields (goals and

instructions)

Ethnicity Procedures

Preferred language Care Team Members

Smoking status Immunizations

Problems Unique device identifier(s) for a

patient's implantable devices

Medications Notes/Narrative

Medication allergies

Connecting Health and Care for the Nation – A Shared Nationwide Interoperability Roadmap: http://www.healthit.gov/sites/default/files/nationwide-interoperability-roadmap-draft-version-1.0.pdf

Speakers

- Karen Dyer (CMS) Laboratory Interoperability Plan
- MariBeth Gagnon (CDC) Update on aLOINC
 Order Code S&I Framework Initiative

References

- FEDERAL HEALTH IT STRATEGIC PLAN
 2015 2020
 http://www.healthit.gov/sites/default/files/fed
 eral-healthIT-strategic-plan-2014.pdf
- Prepared Connecting Health and Care for the Nation – A Shared Nationwide Interoperability Roadmap http://www.healthit.gov/sites/default/files/nationwide-interoperability-roadmap-draft-version-1.0.pdf

Regulations

 2015 Edition Health Information Technology (Health IT) Certification Criteria, Base Electronic Health Record (EHR) Definition, and ONC Health IT Certification Program Modifications Proposed Rule – March 20, 2015

https://s3.amazonaws.com/publicinspection.federalregister.gov/2015-06612.pdf

Electronic Health Record Incentive Program-Stage 3
 Proposed Rule – March 20, 2015

https://s3.amazonaws.com/publicinspection.federalregister.gov/2015-06685.pdf



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